

Agila Bus Procurement Management System

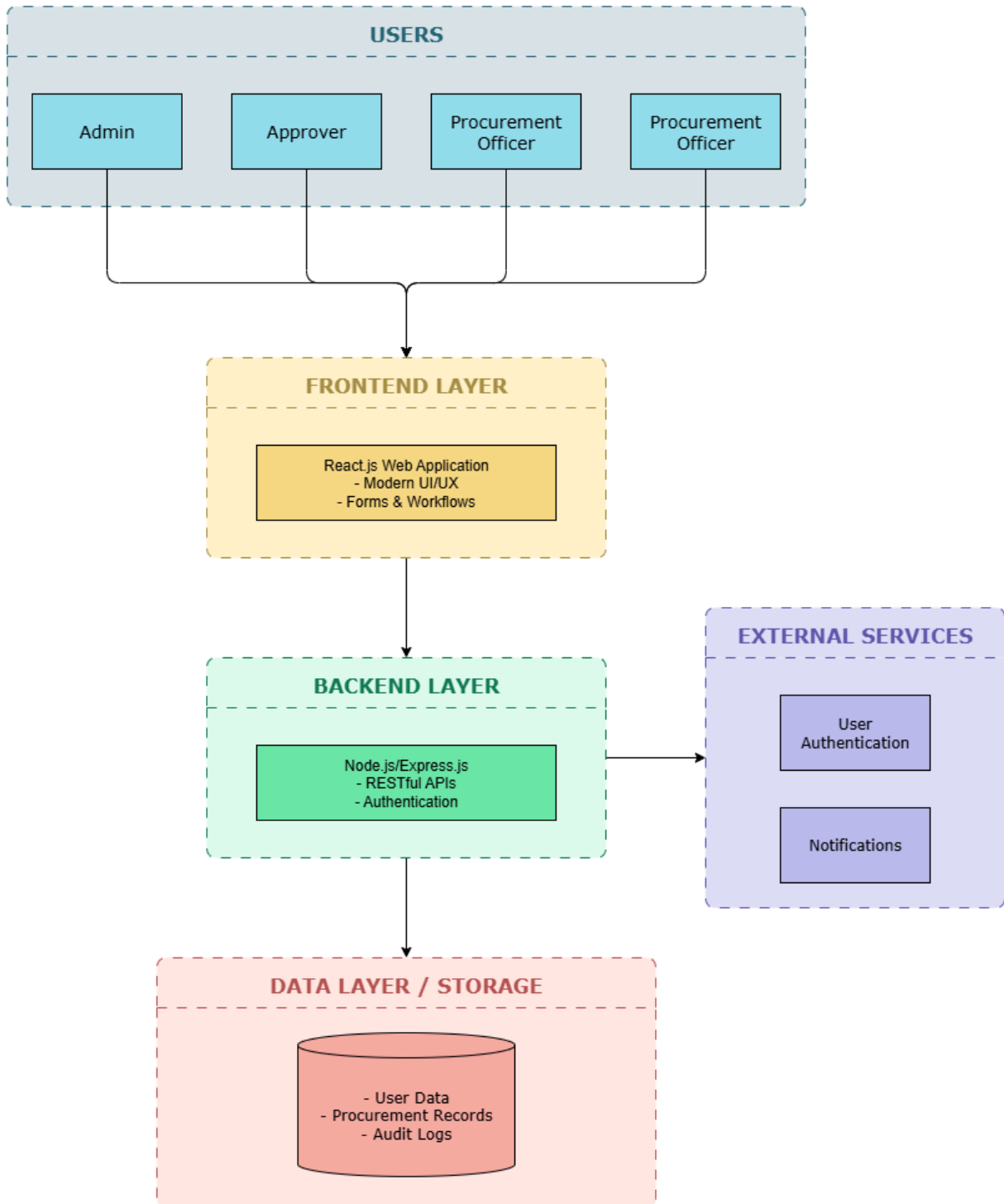
Infrastructure Design

Submitted by:

Bravo, Nerie Ann S.
Cabarles, Bette Anjanella M.
Cleofas, Kristine Mae L.
Dacapias, Christelle Anne S.

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Infrastructure Design

This diagram illustrates the layered architecture of the Procurement Management System, structured to ensure scalability, modularity, and ease of maintenance. The system supports multiple roles like the Admin, Approver, and Procurement Officers, each interacting with the system through a common user interface tailored to their workflows.

Built with React.js, the frontend layer delivers a modern and responsive UI/UX, handling form submissions, user interactions, and workflow visualizations. The Frontend Layer communicates with the Backend Layer, which is built on Node.js and Express.js. This layer handles the core business logic, manages RESTful API endpoints, and enforces user authentication and authorization. It acts as the intermediary between the user interface and the data storage systems.

The Data Layer / Storage is responsible for securely storing all essential records, including user data, procurement transactions, and system audit logs. This ensures data persistence and supports accountability within the system.